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1(AMENDED). A method for enhancing the adjuvant effect of IL-12 comprising: co-administering to a mammalian patient said IL-12, a vaccine antigen, and an effective amount of at least one agent selected from the group consisting of a nitric oxide inhibiting agent and a neutralizing agent.

- 2. The method according to claim 1 wherein said agent is an agent that inhibits or reduces the synthesis of nitric oxide *in vivo*.
- 3. The method according to claim 1 wherein said agent is an agent that breaks down, absorbs, metabolizes or eliminates nitric oxide *in vivo*.
- 4. The method according to claim 1 wherein said co-administration comprises simultaneously administering said agent with said IL-12 and said antigen.
- 5. The method according to claim 1 wherein said co-administration comprises sequentially administering said agent, said IL-12 and said antigen, in any order.
- 6. The method according to claim 3 wherein said co-administration comprises administering said IL-12 before said agent.
- 7. The method according to claim 2 wherein said agent inhibiting nitric oxide generation is an inhibitor of nitric oxide synthase.
- 8. The method according to claim 7 wherein said agent is specific for inducible nitric oxide synthase.

- 9. The method according to claim 2 wherein said agent is selected from the group consisting of L-N^G monomethyl arginine (L-NMMA), L-N^G nitroarginine (L-NORAG), L-N^G nitroarginine methylester (L-NAME), L-N^G nitroarginine p-nitroanilide (L-NAPNA), L-N^G aminoarginine (L-NAA), L-N^G cyclopropylarginine, L-N^G allylarginine, asymmetric L-N^GN^G dimethylarginine (L-ADMA), L-N^G iminoethyl ornithine (L-NIO), 7-nitro indazole (7-NI), 2,7 dinitro indazole, 3-bromo 7-nitro indazole, aminoguanidine, N,N'-diaminoguanidine, dimethylguanidine, diphenyleneiodonium, iodoniumdiphenyl, di-2-thienyliodonium, chlorpromazine, trifluoperazine, pimozide, clozapine, calmidazolium, 2,4 diamino-6-hydroxypyrimidine, methotrexate, N-acetyl-5-hydroxytryptamine, miconazole, ketoconazole, clotrimazole, imidazole, 1-, 2- and 4-phenylimidazole, methylene blue, NO, carbon monoxide, ebselen, phencyclidine, and antineoplastic agents (doxorubicin, aclarubicin).
- 10. The method according to claim 9 wherein said agent is L-NAME.
- The method according to claim 9 wherein said agent is L-NMMA.
- The method according to claim 3 wherein said agent is a nitric oxide scavenger.
- 13. The method according to claim 12 wherein said scavenger is selected from the group consisting of N-acetyl cysteine, pyrrolidine dithiocarbamate, and hemoglobin.
- 14. The method according to claim 1 wherein said vaccine antigen is a mammalian tumor cell antigen.

15. The method according to claim 1 wherein said vaccine antigen is a pathogenic antigen selected from the group consisting of bacterial antigens, viral antigens, and parasitic antigens.

40(AMENDED). An adjuvant composition comprising an effective adjuvanting amount of IL-12 and an effective amount of at least one agent selected from the group consisting of a nitric oxide inhibiting agent and a neutralizing agent, in a pharmaceutically acceptable carrier.

41(AMENDED). A vaccine composition comprising an effective adjuvanting amount of IL-12, an effective amount of at least one agent selected from the group consisting of a nitric oxide inhibiting agent and a neutralizing agent, and an effective protective amount of a vaccine antigen in a pharmaceutically acceptable carrier.

42(NEW). A method of preparing an adjuvant composition comprising combining in a pharmaceutically acceptable carrier an effective amount of a vaccine antigen, and an effective adjuvanting amount of IL-12 and an effective amount of at least one agent selected from the group consisting of a nitric oxide inhibiting agent and a neutralizing agent.